



STIC Search Report

Biotech-Chem Library

File Copy
09/974,760
updated

STIC Database Tracking Number: 145470

TO: David Lamberston
Location: rem/2b79/2c70
Art Unit: 1636
Thursday, February 17, 2005

Case Serial Number: 09/974760

From: Barb O'Bryen
Location: Biotech-Chem Library
Remsen 1A69
Phone: 571-272-2518 *BOB*

barbara.obryen@uspto.gov

Search Notes

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 15, 2005, 01:46:24 ; Search time 168 Seconds
(without alignments)
1079.706 Million cell updates/sec

Title: US-09-974-760B-91

Perfect score: 2456

Sequence: 1 MAADGIFTNSVTLSPVSGS.....FSLARKHKHGLRLDNLNIPP 469

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 2105692 seqs, 386760381 residues

Total number of hits satisfying chosen parameters: 2105643

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 95%

Listing first 45 summaries

Database : A_Geneseq_16Dec04:*

1: Geneseqp1980a:*

2: Geneseqp1990a:*

3: Geneseqp2000a:*

4: Geneseqp2001a:*

5: Geneseqp2002a:*

6: Geneseqp2003a:*

7: Geneseqp2003bs:*

8: Geneseqp2004a:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	2035	82.9	469	ABR64151	ABR64151 Aspergill
2	830	33.8	459	AAU10871	AAU10871 Penicilli
3	830	33.8	459	ADE81191	ADE81191 Mlcr, SEQ
4	157.5	6.4	424	ABP63135	ABP63135 lovP gene
5	157.5	6.4	424	ABP35719	ABP35719 Fungal ZB
6	154.5	6.3	919	ABP35687	ABP35687 Fungal ZB
7	154.5	6.3	919	ADN18782	ADN18782 Bacterial
8	141	5.7	727	ADC52108	ADC52108 A. oryzae
9	136	5.5	604	AAW37163	AAW37163 Aspergill
10	136	5.5	604	ABP35591	ABP35591 Fungal ZB
11	135	5.5	433	ABP35583	ABP35583 Fungal ZB
12	132	5.4	1170	ABP35667	ABP35667 Fungal ZB
13	132	5.4	1170	ADS43829	ADS43829 Bacterial
14	131.5	5.4	480	ABP35612	ABP35612 Fungal ZB
15	130.5	5.3	662	ABP35590	ABP35590 Fungal ZB
16	130.5	5.3	792	ABG93477	ABG93477 Aspergill
17	129.5	5.3	579	ABP35589	ABP35589 Fungal ZB
18	126.5	5.2	341	AAW58573	AAW58573 Trichoder
19	126	5.1	821	ABG93475	ABG93475 Aspergill
20	124.5	5.1	736	ABP35614	ABP35614 Fungal ZB
21	124	5.0	984	ABP35627	ABP35627 Fungal ZB
22	123.5	5.0	437	ABP35582	ABP35582 Fungal ZB
23	123.5	5.0	607	ABP35705	ABP35705 Fungal ZB
24	122	5.0	821	ABG93469	ABG93469 Aspergill
25	122	5.0	821	ABP35586	ABP35586 Fungal ZB

ALIGNMENTS

RESULT 1

ABR64151
ID ABR64151 standard; protein; 469 AA.

AC ABR64151;

DT 15-OCT-2003 (first entry)

DE Aspergillus terreus lovE protein mutant sequence.

XX LovE; regulator; wild-type; fungus; secondary metabolite; lovastatin;
KW food additive; vitamin; mutant; mutein.

OS Aspergillus terreus.

Key Location/Qualifiers

FT	Misc-difference 4	/note= "Asp at this position in wild type protein"
FT	Misc-difference 9	/note= "Thr at this position in wild type protein"
FT	Misc-difference 14	/note= "Leu at this position in wild type protein"
FT	Misc-difference 16	/note= "Pro at this position in wild type protein"
FT	Misc-difference 18	/note= "Glu at this position in wild type protein"
FT	Misc-difference 21	/note= "Arg at this position in wild type protein"
FT	Misc-difference 23	/note= "Gly at this position in wild type protein"
FT	Misc-difference 31	/note= "Phe at this position in wild type protein"
FT	Misc-difference 34	/note= "Ser at this position in wild type protein"
FT	Misc-difference 41	/note= "Gln at this position in wild type protein"
FT	Misc-difference 43	/note= "Ile at this position in wild type protein"
FT	Misc-difference 46	/note= "Thr at this position in wild type protein"
FT	Misc-difference 62	/note= "Gln at this position in wild type protein"
FT	Misc-difference 73	/note= "Cys at this position in wild type protein"
FT	Misc-difference 77	/note= "Lys at this position in wild type protein"
FT	Misc-difference 80	/note= "Gln at this position in wild type protein"

26	121.5	4.9	964	4	AA330811	Aab30811 Amino aci
27	121.5	4.9	964	5	ABP35696	Abp35696 Fungal ZB
28	121.5	4.9	964	7	ADK62832	Adk62832 Disease t
29	121	4.9	470	5	ABP35710	Abp35710 Fungal ZB
30	121	4.9	739	5	ABP35675	Abp35675 Fungal ZB
31	121	4.9	821	5	ABG93472	Abg93472 Aspergill
32	120.5	4.9	532	7	ADE81193	Ad81193 Orf1, SEQ
33	120.5	4.9	795	5	ABG93476	Abg93476 Aspergill
34	120	4.9	470	5	ABP35648	Abp35648 Fungal ZB
35	119.5	4.9	999	7	ABR84508	AbR84508 Human ani
36	119.5	4.9	999	7	ABR84509	AbR84509 Mouse ani
37	119	4.8	470	5	ABP35652	Abp35652 Fungal ZB
38	119	4.8	565	5	ABP35662	Abp35662 Fungal ZB
39	119	4.8	630	7	ADE71247	Ad71247 Novel hum
40	119	4.8	631	8	ABO84656	AbO84656 Human can
41	119	4.8	703	8	ABO84655	AbO84655 Human can
42	119	4.8	1163	8	ADO65188	AdO65188 Novel hum
43	119	4.8	1331	8	ADR10449	AdR10449 Human pro
44	118.5	4.8	857	5	ABP35608	Abp35608 Fungal ZB
45	118.5	4.8	2016	6	AAE36891	Aae36891 Plectreur

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OM protein - protein search, using sw model

Run on: February 15, 2005, 01:57:35 ; Search time 43 Seconds
(without alignments)
814.196 Million cell updates/sec

Title: US-09-974-760B-91

Perfect score: 2456

Sequence: 1 MAADQGIFTNVTSLSPVEGS.....FSLARKKHGMLRLNNIPP 469

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 95%

Listing first 45 summaries

Database :

Issued Patents AA:*
1: /cgn2_6/ptodata/1/iaa/5A COMB.pcp.*
2: /cgn2_6/ptodata/1/iaa/5B COMB.pcp.*
3: /cgn2_6/ptodata/1/iaa/6A COMB.pcp.*
4: /cgn2_6/ptodata/1/iaa/6B COMB.pcp.*
5: /cgn2_6/ptodata/1/iaa/PCRUS_COMB.pcp.*
6: /cgn2_6/ptodata/1/iaa/backfiles.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	157.5	6.4	424	US-10-029-180-104	Sequence 104, Appl
2	136	5.5	604	US-09-197-814-3	Sequence 3, Appli
3	136	5.5	604	US-09-920-581-3	Sequence 3, Appli
4	119	4.8	631	US-09-147-119-7	Sequence 7, Appli
5	119	4.8	707	US-09-949-016-8495	Sequence 8495, Ap
6	118	4.8	439	US-09-248-796A-18964	Sequence 18964, A
7	116	4.7	989	US-09-248-796A-19109	Sequence 19109, A
8	112.5	4.6	885	US-09-248-796A-20197	Sequence 20197, A
9	111.5	4.5	986	US-09-248-796A-19088	Sequence 19088, A
10	109	4.4	534	US-09-248-796A-18568	Sequence 18568, A
11	108.5	4.4	314	US-09-248-796A-18676	Sequence 18676, A
12	108	4.4	835	US-09-252-991A-32121	Sequence 32121, A
13	107	4.4	479	US-09-248-796A-17560	Sequence 17560, A
14	106.5	4.3	775	US-08-714-070A-1	Sequence 1, Appli
15	106	4.3	971	US-09-248-796A-19531	Sequence 19531, A
16	104	4.2	335	US-09-248-796A-17099	Sequence 17099, A
17	104	4.2	1341	US-09-949-016-6890	Sequence 6890, Ap
18	104	4.2	1344	US-09-949-016-10925	Sequence 10925, A
19	102.5	4.2	808	US-09-248-796A-18679	Sequence 18679, A
20	101.5	4.1	351	US-09-248-796A-20887	Sequence 20887, A
21	101.5	4.1	421	US-09-248-796A-19591	Sequence 19591, A
22	101	4.1	515	US-09-252-991A-22451	Sequence 22451, A
23	101	4.1	1587	US-09-845-583A-10	Sequence 10, Appli
24	101	4.1	1587	US-09-561-709B-3	Sequence 3, Appli
25	100	4.1	758	US-10-029-180-92	Sequence 92, Appli
26	99	4.0	1065	US-09-538-092-84	Sequence 84, Appli
27	98.5	4.0	309	US-10-029-180-98	Sequence 98, Appli

ALIGNMENTS

RESULT 1

US-10-029-180-104
; Sequence 104, Application US/10029180

; Patent No. 6806082

; GENERAL INFORMATION:

; APPLICANT: Cali, Brian M.

; APPLICANT: Holtzman, Doug

; APPLICANT: Madden, Kevin T.

; APPLICANT: Milna, G. Todd

; APPLICANT: Sherman, Amir

; APPLICANT: Silva, Jeffry C.

; APPLICANT: Trueheart, Josh

; APPLICANT: Zhang, Lixin

; TITLE OF INVENTION: No. 6806082el Regulators of Fungal Gene Expression

; FILE REFERENCE: MIC-004

; CURRENT APPLICATION NUMBER: US/10/029,180

; CURRENT FILING DATE: 2001-12-22

; PRIOR APPLICATION NUMBER: US 60/257,431

; PRIOR FILING DATE: 2000-12-22

; NUMBER OF SEQ ID NOS: 138

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 104

; LENGTH: 424

; TYPE: PRT

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: fungal gene

US-10-029-180-104

Query Match 6.4%; Score 157.5; DB 4; Length 424;

Best Local Similarity 20.6%; Pred. No. 2.1e-07;

Matches 94; Conservative 62; Mismatches 161; Indels 139; Gaps 22;

QY 32 RRSRCRCHQKIKCTGNKEVTGRAPCQRCQQAAGLCVTVSERCPCPKLRQSR-----83

DB 7 RHACDRCHQKLRCH-----SGGFCVRCACAKATCSWSQSLSRNLKXHNAPISDVPLA 62

QY 84 -ADLYSADPDP-----CLHMSGP-----PVPQSILPDVS-ES 114

DB 63 CAQLATQSDPNTPOFGAYMSQPSAGVDIDINLLQTFDSTPWALPAGRYVPSASQEM 122

QY 115 HSNSTRQFLDPPDSYDWSWTSIGT-----DEAIDTDCWGLSCDGGFSCQLEP 163

DB 123 ETYNVGHTEADLPATADWWMPAVANGPVQTTTPANWQQAFOE-WAM-----MASQHPV 175

QY 164 TLPLDLPSPFESTVEKAPLPVSSDIARAASAQRELFDLSA-----VSQLELEILLAV 216

DB 176 ATMDTPSR-TSPVSDAVDPKTKVCLLATIRELSNVDLYAHEATVPKPPASLEB-----229

QY 217 TVENPKQEIWTHPIGMFFNARRLTLVLRQQ-----AQADCHQGT-----256

Sequence 19569, A
Sequence 40, Appl
Sequence 19570, A
Sequence 19293, A
Sequence 18751, A
Sequence 22, Appl
Sequence 18894, A
Sequence 19247, A
Sequence 36, Appl
Sequence 434, App
Sequence 2, Appli
Sequence 2, Appli
Sequence 18923, A
Sequence 19209, A
Sequence 2, Appli
Sequence 2, Appli
Sequence 6, Appli

263 4 US-09-248-796A-19569
4.0 98 28
397 4 US-10-029-180-40
3.9 98 29
109 4 US-09-248-796A-19570
3.9 97 30
519 4 US-09-248-796A-19293
3.9 97 31
621 4 US-09-248-796A-18751
3.9 96.5 32
694 4 US-10-029-180-22
3.9 96 33
311 4 US-10-029-180-12
3.9 95.5 34
232 4 US-09-248-796A-18894
3.9 95 35
461 4 US-09-248-796A-19247
3.9 95 36
1102 4 US-09-358-383C-36
3.9 95 37
1702 4 US-09-854-133-434
3.9 95 38
2052 3 US-09-045-201A-2
3.9 95 39
2052 4 US-09-619-062-2
3.9 95 40
205 4 US-09-248-796A-18923
3.8 94.5 41
756 4 US-09-248-796A-19209
3.8 94.5 42
412 2 US-08-755-584-2
3.8 94 43
412 3 US-09-192-611-2
3.8 94 44
412 4 US-08-755-592A-6
3.8 94 45

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OM protein - protein search, using sw model

Run on: February 15, 2005, 02:03:56 ; Search time 133 Seconds
(without alignments)
1152.221 Million cell updates/sec

Title: US-09-974-760B-91
Perfect score: 2456
Sequence: 1 MAADQGIPTNSVTLSPVEGS.....FSLARKKHGMLRLNNIPP 469

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1376875 seqs, 326749119 residues

Total number of hits satisfying chosen parameters: 1376809

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 95%

Listing first 45 summaries

Database :

Published Applications AA:*

- 1: /cgn2_6/ptodata/2/pubpaa/US07_PUBCOMB.pep.*
- 2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/2/pubpaa/US06_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/2/pubpaa/US06_PUBCOMB.pep.*
- 5: /cgn2_6/ptodata/2/pubpaa/US07_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/2/pubpaa/PCTUS_PUBCOMB.pep.*
- 7: /cgn2_6/ptodata/2/pubpaa/US08_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/2/pubpaa/US08_PUBCOMB.pep.*
- 9: /cgn2_6/ptodata/2/pubpaa/US09A_PUBCOMB.pep.*
- 10: /cgn2_6/ptodata/2/pubpaa/US09B_PUBCOMB.pep.*
- 11: /cgn2_6/ptodata/2/pubpaa/US09C_PUBCOMB.pep.*
- 12: /cgn2_6/ptodata/2/pubpaa/US09_NEW_PUB.pep.*
- 13: /cgn2_6/ptodata/2/pubpaa/US10A_PUBCOMB.pep.*
- 14: /cgn2_6/ptodata/2/pubpaa/US10B_PUBCOMB.pep.*
- 15: /cgn2_6/ptodata/2/pubpaa/US10C_PUBCOMB.pep.*
- 16: /cgn2_6/ptodata/2/pubpaa/US10D_PUBCOMB.pep.*
- 17: /cgn2_6/ptodata/2/pubpaa/US10_NEW_PUB.pep.*
- 18: /cgn2_6/ptodata/2/pubpaa/US11_NEW_PUB.pep.*
- 19: /cgn2_6/ptodata/2/pubpaa/US60_NEW_PUB.pep.*
- 20: /cgn2_6/ptodata/2/pubpaa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
1	1858.5	75.7	366	US-10-402-056-105	Sequence 105, App
2	830	33.8	459	US-09-836-705-42	Sequence 42, Appl
3	157.5	6.4	424	US-10-029-180-104	Sequence 104, App
4	157.5	6.4	424	US-10-149-310-302	Sequence 302, App
5	154.5	6.3	919	US-10-369-493-1435	Sequence 1435, App
6	154.5	6.3	919	US-10-149-310-238	Sequence 238, App
7	136	5.5	604	US-09-920-581-3	Sequence 3, Appli
8	136	5.5	604	US-10-371-421-3	Sequence 3, Appli
9	136	5.5	604	US-10-149-310-46	Sequence 46, Appl
10	135	5.5	433	US-09-801-368-38	Sequence 38, Appl
11	135	5.5	433	US-10-149-310-30	Sequence 30, Appl
12	132	5.4	1170	US-10-369-493-22259	Sequence 22259, A
13	132	5.4	1170	US-10-149-310-198	Sequence 198, App

14	131.5	5.4	480	15	US-10-149-310-88	Sequence 88, Appl
15	130.5	5.3	662	9	US-09-801-368-42	Sequence 42, Appl
16	130.5	5.3	662	15	US-10-149-310-44	Sequence 44, Appl
17	130.5	5.3	792	16	US-10-468-250A-130	Sequence 130, App
18	129.5	5.3	579	15	US-10-149-310-42	Sequence 42, Appl
19	126	5.1	821	16	US-10-468-250A-128	Sequence 128, App
20	124.5	5.1	736	15	US-10-149-310-92	Sequence 92, Appl
21	124	5.0	984	15	US-10-149-310-118	Sequence 118, Appl
22	123.5	5.0	437	15	US-10-149-310-28	Sequence 28, Appl
23	123.5	5.0	607	15	US-10-149-310-274	Sequence 274, App
24	122	5.0	821	15	US-10-149-310-36	Sequence 36, Appl
25	122	5.0	821	16	US-10-468-250A-122	Sequence 122, App
26	121.5	4.9	964	15	US-10-149-310-256	Sequence 256, App
27	121	4.9	470	15	US-10-149-310-284	Sequence 284, App
28	121	4.9	739	9	US-09-801-368-396	Sequence 396, App
29	121	4.9	739	15	US-10-149-310-214	Sequence 214, App
30	121	4.9	821	16	US-10-468-250A-125	Sequence 125, App
31	120.5	4.9	795	16	US-10-468-250A-129	Sequence 129, App
32	120	4.9	470	15	US-10-149-310-160	Sequence 160, App
33	119	4.8	470	15	US-10-149-310-168	Sequence 168, App
34	119	4.8	565	15	US-10-149-310-188	Sequence 188, App
35	118.5	4.8	857	15	US-10-149-310-80	Sequence 80, Appl
36	118.5	4.8	2016	17	US-10-488-056-52	Sequence 52, Appl
37	117	4.8	473	15	US-10-149-310-170	Sequence 170, App
38	117	4.8	767	15	US-10-149-310-90	Sequence 90, Appl
39	116.5	4.7	377	9	US-09-853-386-74	Sequence 74, Appl
40	116.5	4.7	444	15	US-10-149-310-34	Sequence 34, Appl
41	116.5	4.7	882	15	US-10-149-310-122	Sequence 122, App
42	116.5	4.7	1445	15	US-10-149-310-110	Sequence 110, App
43	116	4.7	470	15	US-10-149-310-164	Sequence 164, App
44	115.5	4.7	384	15	US-10-149-310-32	Sequence 32, Appl
45	115	4.7	517	9	US-09-801-368-100	Sequence 100, App

ALIGNMENTS

RESULT 1
US-10-402-056-105
; Sequence 105, Application US/10402056
; Publication No. US20040191877A1
; GENERAL INFORMATION:
; APPLICANT: Sherman, Amir
; APPLICANT: Roberts, Shannon
; APPLICANT: Trueheart, Joshua
; APPLICANT: Milne, G. Todd
; TITLE OF INVENTION: LOVE VARIANT REGULATOR MOLECULES
; FILE REFERENCE: 14184-029001
; CURRENT APPLICATION NUMBER: US/10/402,056
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: PCT/US02/32248
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US 09/974,760
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: US 60/328,339
; PRIOR FILING DATE: 2001-10-09
; NUMBER OF SEQ ID NOS: 118
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 105
; LENGTH: 366
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: synthetically generated variant
US-10-402-056-105

Query Match 75.7%; Score 1858.5; DB 16; Length 366;

Best Local Similarity 77.6%; Pred. No. 1.4e-159; Indels 103; Gaps 1;

Matches 364; Conservative 1; Mismatches 1;

QY 1 MAADQGIPTNSVTLSPVEGSRTGGTLPRAFRSRRSCDRCHAQIKCTGNKVTGRAPCQRC 60

DB 1 MAADQGIPTNSVTLSPLESGRTGGTLPRAFRSRRSCDRCLAQIKCTGNKVTGRAPCQRC 60

GenCore version 5.1.6
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OM protein - protein search, using sw model
Run on: February 15, 2005, 01:55:19 ; Search time 40 Seconds
(without alignments)
1128.142 Million cell updates/sec

Title: US-09-974-760B-91
Perfect score: 2456
Sequence: 1 MAADQGIFTNSVLTSPVEGS.....FSLARKKHGCHLRLNNIPP 469

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283416 seqs, 96216763 residues
Total number of hits satisfying chosen parameters: 283416

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 95%
Listing first 45 summaries

Database : PIR 79:.*
1: PIR1:.*
2: PIR2:.*
3: PIR3:.*
4: PIR4:.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	154.5	6.3	919	2 S45889	probable regulator
2	136	5.5	604	2 JC7252	transcription acti
3	135	5.5	433	2 S69999	sterigmatocystin s
4	132	5.4	1170	2 S30010	probable finger pr
5	131.5	5.4	480	2 T38582	hypothetical funga
6	124.5	5.1	768	2 T37601	probable transcript
7	123.5	5.0	607	2 S63395	probable membrane
8	121.5	4.9	964	2 S48404	probable membrane
9	121	4.9	470	2 S58826	hypothetical prote
10	119	4.8	648	2 T20144	hypothetical prote
11	118.5	4.8	857	2 T40824	probable transcrip
12	117	4.8	473	1 RGVYV3	regulatory protein
13	117	4.8	767	2 T41344	probable zinc-fing
14	116.5	4.7	1445	2 T14913	CAR8 protein - yea
15	115	4.7	6420	2 T30283	polyketide synthas
16	113.5	4.6	650	2 JC7937	transcription acti
17	110.5	4.5	827	2 T39608	zinc finger transc
18	110	4.5	909	2 T06635	hypothetical prote
19	110	4.4	1349	2 T13031	nucleoporin - fru
20	109	4.4	1365	2 T13991	nucleoporin 154 -
21	106.5	4.3	775	2 S41962	thiamin repressibl
22	106.5	4.3	867	2 T41308	hypothetical zinc-
23	106.5	4.3	5327	2 T13564	microtubule-associ
24	106	4.3	743	2 T40521	hypothetical prote
25	106	4.3	1433	2 S54587	CAR8 protein - yea
26	105	4.3	997	2 A60776	230k bullous pemph
27	104.5	4.3	1171	2 T00380	XIAA0637 protein -
28	104	4.2	1280	2 T00365	hypothetical prote
29	104	4.2	1587	2 G86467	hypothetical prote

30	103	4.2	704	2 T50303	hypothetical prote
31	103	4.2	765	2 A36332	regulatory protein
32	102.5	4.2	758	2 S46625	finger protein YJL
33	102.5	4.2	2232	2 T34434	hypothetical prote
34	102	4.2	468	2 S46179	regulatory protein p
35	101.5	4.1	1403	2 S24548	homeotic protein p
36	101	4.1	1176	2 T49482	hypothetical prote
37	100.5	4.1	1068	2 S64015	pleiotropic drug r
38	100	4.1	736	2 T06757	hypothetical prote
39	99.5	4.1	547	2 T39478	zinc-finger protei
40	99	4.0	913	2 S61580	probable membrane
41	99	4.0	1048	2 H87721	protein ZC123.2 [i
42	99	4.0	1065	2 S19482	hypothetical prote
43	99	4.0	1425	2 E89303	protein C47E8.8 [i
44	99	4.0	1675	2 T31473	hypothetical prote
45	98.5	4.0	1095	2 T00329	hypothetical prote

ALIGNMENTS

RESULT 1

S45889
probable regulatory protein YBR033w - yeast (Saccharomyces cerevisiae)
N;Alternate names: hypothetical protein YBR0318
C;Species: Saccharomyces cerevisiae
C;Date: 28-Aug-1994 #sequence_revision 09-Sep-1994 #text_change 16-Aug-2004
C;Accession: S45889; S46562
R;Grivell, L.A.; de Haan, M.; Maat, M.J.; Smits, P.H.M.
submitted to the Protein Sequence Database, August 1994
A;Reference number: S45875
A;Accession: S45889
A;Molecule type: DNA
A;Residues: 1-919 <GRI>
A;Cross-references: UNIPROT:P38073; EMBL:X76078; NID:235902; PIDN:CAA84975.1; PID:953
R;Smits, P.H.M.; de Haan, M.; Maat, C.; Grivell, L.A.
Yeast 10(Suppl.A), S75-S80, 1994
A;Title: The complete sequence of a 33 kb fragment on the right arm of chromosome II f
ly identified genes and a homologue of the SCOI gene.
A;Reference number: S46551; MUID:94378725; PMID:8091864
A;Accession: S46562
A;Status: nucleic acid sequence not shown; translation not shown
A;Molecule type: DNA
A;Residues: 1-919 <SMI>
A;Cross-references: EMBL:X76078; NID:9498748; PIDN:CAA53688.1; PID:9498760
A;Experimental source: strain S288C
A;Note: the nucleotide sequence was submitted to the EMBL Data Library, November 1993
C;Genetics:
A;Cross-references: SGB:S00000237
A;Map position: 2R
A;Note: YBR033w
C;Superfamily: GAL4 zinc binuclear cluster homology
C;Keywords: DNA binding; transmembrane protein; zinc finger
F;51-90/Domain: GAL4 zinc binuclear cluster homology <GAL4>
F;56-85/Region: zinc finger
F;408-424/Domain: transmembrane #status predicted <TM1>
F;482-504/Domain: transmembrane #status predicted <TM2>
F;547-563/Domain: transmembrane #status predicted <TM3>
F;703-720/Domain: transmembrane #status predicted <TM4>
F;790-806/Domain: transmembrane #status predicted <TM5>

Query Match 6.3%; Score 154.5; DB 2; Length 919;
Best Local Similarity 23.1%; Pred. No. 0.0012;
Matches 82; Conservative 52; Mismatches 142; Indels 79; Gaps 14;

QY	2	AADQGIFTNSVLTSPVEGSRTGGLPRRAFRSCDRCHAQIKCTGNKEVTGRAPQCRQ	61
Db	23	SASMGVSVSRNCERCEKTKORKKASHACQCRKRIKCRFDKH-TG--VQGCGL	79
QY	62	QAGLRC-----VYSERCPRKLRQSRADLVLSADPDP-----CL	95
Db	80	EVGEKQFIRVPLKRGPAKRGVSVSIEKFSFSDNDPLQYRPRTHSYPMNNGNLYPLSLAR	139

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OM protein - protein search, using sw model

Run on: February 15, 2005, 01:47:14 ; Search time 173 Seconds
(without alignments)
1388.238 Million cell updates/sec

Title: US-09-974-760B-91

Perfect score: 2456

Sequence: 1 MAADQGIPTSVTLSPVEGS.....FSLARKKHGWLRLNIPP 469

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1612378 seqs, 512079187 residues

Total number of hits satisfying chosen parameters: 1612377

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 95%

Listing first 45 summaries

Database :

UniProt_03.*

1: uniprot_sprot.*

2: uniprot_trembl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	830	33.8	459	Q8J0F2	Q8J0F2 penicillium
2	161.5	6.6	1010	Q7S6Q4	Q7S6Q4 neurospora
3	158	6.4	478	Q6BPX4	Q6BPX4 debaryomyce
4	154.5	6.3	919	Y803_YEAST	P38073 saccharomyc
5	148.5	6.0	500	Q6Q877	Q6Q877 leptosphaer
6	145.5	5.9	1082	Q6CXE0	Q6CXE0 kluyveromyc
7	145	5.9	603	Q7SEM4	Q7SEM4 neurospora
8	142.5	5.8	520	Q8X0T1	Q8X0T1 neurospora
9	138.5	5.6	554	Q7SAV4	Q7SAV4 neurospora
10	137	5.6	1287	Q6FLP2	Q6FLP2 candida gla
11	136	5.5	604	Q60201	Q60201 aspergillus
12	135.5	5.5	442	Q8TGB1	Q8TGB1 aspergillus
13	135	5.5	433	1 AFLR EMENI	P52957 emericeila
14	133.5	5.4	922	Q6FXI8	Q6FXI8 candida gla
15	133.5	5.4	1254	Q6FJW6	Q6FJW6 candida gla
16	133	5.4	470	Q6UWH4	Q6UWH4 saccharomyc
17	132	5.4	1170	1 YK08_YEAST	P32862 saccharomyc
18	131.5	5.4	480	Q94392	Q94392 schizosacch
19	130.5	5.3	662	Q9Y728	Q9Y728 emericeila
20	130.5	5.3	785	Q672V8	Q672V8 aspergillus
21	130	5.3	436	Q6IWF3	Q6IWF3 aspergillus
22	129.5	5.3	579	Q9Y8A1	Q9Y8A1 aspergillus
23	128.5	5.2	442	Q8TG77	Q8TG77 aspergillus
24	128.5	5.2	442	Q8TG79	Q8TG79 aspergillus
25	128.5	5.2	442	Q8TG84	Q8TG84 aspergillus
26	127	5.2	832	Q6FUL5	Q6FUL5 candida gla
27	126.5	5.2	341	1 ACE2_TRIRE	Q96WN6 trichoderma
28	126.5	5.2	442	Q8TFC7	Q8TFC7 aspergillus
29	126.5	5.2	442	Q8TG78	Q8TG78 aspergillus
30	126.5	5.2	442	Q8TG86	Q8TG86 aspergillus
31	126.5	5.2	1353	2 Q7S6K8	Q7S6K8 neurospora

32	125.5	5.1	442	2	Q8TG82	Q8TG82 aspergillus
33	124.5	5.1	442	2	Q8TG83	Q8TG83 aspergillus
34	124.5	5.1	442	2	Q8TG87	Q8TG87 aspergillus
35	124	5.0	984	2	Q94167	Q94167 glomerella
36	123.5	5.0	437	1	AFLR_ASPFL	P41765 aspergillus
37	123.5	5.0	444	2	Q8TG71	Q8TG71 aspergillus
38	123.5	5.0	607	1	YN92_YEAST	P53749 saccharomyc
39	123	5.0	444	2	Q8TG72	Q8TG72 aspergillus
40	122	5.0	441	2	Q8TG80	Q8TG80 aspergillus
41	122	5.0	444	2	Q8J2V0	Q8J2V0 aspergillus
42	122	5.0	444	2	Q8J4B8	Q8J4B8 aspergillus
43	122	5.0	821	1	ALCR_EMENI	P21228 emericeila
44	121.5	4.9	964	1	YINO_YEAST	P40467 saccharomyc
45	121	4.9	444	2	Q8TFC9	Q8TFC9 aspergillus

ALIGNMENTS

RESULT 1

Q8J0F2 PRELIMINARY; PRT; 459 AA.
AC Q8J0F2;
DT 01-MAR-2003 (TREMBLrel. 23, Created)
DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)
DT 01-MAR-2004 (TREMBLrel. 26, Last annotation update)
DE Transcription factor.
GN Name=mlcR;
OS Penicillium citrinum.
OC Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;
OC Eurotiiales; Trichocomaceae; mitosporic Trichocomaceae; Penicillium.
OX NCBI_TaxID=5077;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=22162865; PubMed=12172803; DOI=10.1007/s00438-002-0697-y;
RA Abe Y., Suzuki T., Ono C., Iwamoto K., Hosobuchi M., Yoshikawa H.;
RT "Molecular cloning and characterization of an ML-236B (compactin) biosynthetic gene cluster in Penicillium citrinum."
RL Mol. Genet. Genomics 268:130-137(2002).
CC -!- SUBCELLULAR LOCATION: Nuclear (By similarity).
CC -!- SIMILARITY: Contains 1 Zn(2)-Cys(6) fungal-type binuclear cluster domain.
DR EMBL; AB072893; BAC20569.1; -.
DR GO; GO:0005634; C:nucleus; IEA.
DR GO; GO:0003700; F:transcription factor activity; IEA.
DR GO; GO:0008270; F:zinc ion binding; IEA.
DR GO; GO:0006355; P:regulation of transcription, DNA-dependent; IEA.
DR InterPro; IPR001138; Fungi_Trcsrp_N.
DR Pfam; PF00172; Zn_clus_1.
DR PRINTS; PR00054; FUNGALZNCYS.
DR SMART; SM00066; GAL4; 1.
DR PROSITE; PS00463; ZN2_Cy6_FUNGAL_1; UNKNOWN_1.
DR PROSITE; PS00448; ZN2_Cy6_FUNGAL_2; 1.
KW DNA-binding; Metal-binding; Nuclear protein; Transcription;
KW Transcription regulation; Zinc.
SQ SEQUENCE 459 AA; 50356 MW; 4D2D1B3307EF46C1 CRC64;

Query Match 33.8%; Score 830; DB 2; Length 459;

Best Local Similarity 42.2%; Pred. No. 3.3e-54;

Matches 196; Conservative 62; Mismatches 153; Indels 54; Gaps 9;

QY 26 LRRAPRRSCDRCHQAQKCTGNKEVTGAPQRCQQAGLCVYSERCPRKLRQRAA- 84

DB 12 LRRAPRRSCDRCHQAQKCTGNKEVTGAPQRCQQAGLCVYSERLPKRLHKEAAG 71

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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 16, 2005, 20:20:52 ; Search time 5100 Seconds

(without alignments)
4455.980 Million cell updates/sec

Title: US-09-974-760B-91

Perfect score: 2456

Sequence: 1 MAADQGIPTNSVTLSPEVGS.....FSLARKKHGMLRLNIPP 469

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 4708233 seqs, 24227607955 residues

Total number of hits satisfying chosen parameters: 9416463

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 95%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n model -DEV=xlp
-Q=/cgn2_1/USPTO_spool_p/US09974760/runat_14022005_160342_6751/app_query.fasta_1.647
-DB=genembi -QPM=fastap -SUFFIX=95pct.rge -MINMATCH=0.1 -LOOPCL=0 -LOOPEXT=0
-UNITS=bites -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR_SCORE=pct -THR_MAX=95 -THR_MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09974760 @CGN 1 1 5600 @runat_14022005_160342_6751 -NCPU=6 -ICPU=3
-NO_WMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSFBLOCK=100 -LONGLOG
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

GenEmbl.*

1: gb_ba.*
2: gb_hcg.*
3: gb_in.*
4: gb_om.*
5: gb_ov.*
6: gb_pat.*
7: gb_ph.*
8: gb_pl.*
9: gb_pr.*
10: gb_ro.*
11: gb_sta.*
12: gb_tay.*
13: gb_un.*
14: gb_vl.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	830	33.8	1380	6	BD178141
2	811	33.0	34203	6	BD178102
3	811	33.0	34203	6	BD178103
4	811	33.0	34203	6	BD013765

5	811	33.0	34203	6	BD013766
6	811	33.0	34203	6	BD093553
7	811	33.0	34203	6	BD093554
8	811	33.0	38231	8	AB072893
9	292.5	11.9	562	6	BD178135
10	292.5	11.9	562	6	BD013798
11	292.5	11.9	562	6	BD093586
12	266.5	10.9	541	6	BD178123
13	266.5	10.9	541	6	BD013786
14	266.5	10.9	541	6	BD093574
15	163	6.6	2757	6	AX684918
16	163	6.6	3114	8	SCYBR033W
17	163	6.6	3117	8	SCGAL1
18	161	6.6	68683	8	AY553235
19	158	6.4	110000	8	CR382137_07
20	157.5	6.4	1272	6	AX505237
21	157.5	6.4	1272	6	AX684982
22	153.5	6.2	1440	6	AX684768
23	153.5	6.2	11578	8	SPAC2H10
24	146	5.9	241050	2	AC119506
25	146	5.9	244250	2	AC095307
26	145.5	5.9	110000	8	CR382121_07
27	145.5	5.9	110000	8	CR382121_08
28	145	5.9	35745	3	LMFL5174
29	143.5	5.8	3667	8	AK110197
30	143.5	5.8	261960	2	AC120634
31	140.5	5.7	1812	6	AX684724
32	140	5.7	2045	8	AF441422
33	140	5.7	2051	8	AF441414
34	140	5.7	110000	2	AP006487_2
35	140	5.7	301950	1	AP006570
36	139.5	5.7	110000	8	CR380958_02
37	139.5	5.7	245684	2	AC098110
38	139.5	5.7	255473	2	AC121416
39	139	5.7	3980	6	AR309623
40	139	5.7	3980	6	AR309624
41	139	5.7	3986	8	AOAJ5258
42	139	5.7	8813	8	AB012945
43	139	5.7	35244	8	AB021876
44	138.5	5.6	1934	3	LTALED
45	138.5	5.6	301675	1	AP005027

ALIGNMENTS

RESULT 1	BD178141	BD178141	1380 bp	DNA	linear	PAT 16-APR-2003
LOCUS	On the structural gene of gene cluster.					
DEFINITION	BD178141					
ACCESSION	BD178141					
VERSION	BD178141.1	GI:30015405				
KEYWORDS	JP 2002315579-A/40.					
SOURCE	Penicillium citrinum					
ORGANISM	Penicillium citrinum					
REFERENCE	Eukaryota; Fungi; Ascomycota; Pezizomycotina; Eurotiomycetes;					
AUTHORS	Abel, O., Ono, C. and Yoshikawa, H.					
TITLE	On the structural gene of gene cluster					
JOURNAL	Patent: JP 2002315579-A 40 29-OCT-2002;					
COMMENT	SANKYO CO LTD					
	OS Penicillium citrinum					
	PN JP 2002315579-A/40					
	PD 29-OCT-2002					
	PF 18-APR-2001					
	PI YUKI ABE, CHIHO ONO, HIROJI YOSHIKAWA					
	PC C12N1/09, C12N1/15, C12N1/21, C12P17/06, C12N1/15, C12R1/80, PC					
	(C12P17/06, C12R1/80), C12N1/00					
	CC On the structural gene of gene cluster					
	FE Key					
	FT Location/Qualifiers					
	FT CDS					
	FT (1)..(1380).					
	FT Location/Qualifiers					
	1..1380					

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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 16, 2005, 19:56:52 ; Search time 643 Seconds

(without alignment)
4317.821 Million cell updates/sec

Title: US-09-974-760B-91

Perfect score: 2456

Sequence: 1 MAADQGIPTSVTLSPVEGS.....FSLARKKHGMLRLNNIPP 469

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 4390206 seqs, 2959870667 residues

Total number of hits satisfying chosen parameters: 8780382

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 95%

Listing first 45 summaries

Command line parameters:

-MODEL=frame+ p2n.model -DEV=xip
-Q=/cgn2/1/USPIO_spool_p/US09974760/runat_14022005_160342_6744/app_query.fasta_1.647
-DB=N Geneseq 16Dec04 -Qfmt=fastap -SUFFIX=95pct.rng -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCLIGN=200 -THR SCORE=pct -THR MAX=95 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
-USPR=US09974760 @CGN 1.1 708 @runat_14022005_160342_6744 -NCPU=6 -ICPU=3
-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database :

N Geneseq 16Dec04:*
1: Geneseqn1980s:*
2: Geneseqn1990s:*
3: Geneseqn2000s:*
4: Geneseqn2001as:*
5: Geneseqn2001bs:*
6: Geneseqn2002as:*
7: Geneseqn2002bs:*
8: Geneseqn2003as:*
9: Geneseqn2003bs:*
10: Geneseqn2003cs:*
11: Geneseqn2003ds:*
12: Geneseqn2004as:*
13: Geneseqn2004bs:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	830	33.8	1377	10 ADE81190	Ade81190 MLCr codi
2	830	33.8	1380	6 AAF74547	Aaf74547 Penicilli
c 3	811	33.0	34203	4 AAF74546	Aaf74546 Penicilli
c 4	811	33.0	34203	6 AAS16770	Aas16770 Penicilli
5	811	33.0	34263	4 AAF74547	Aaf74547 Penicilli

c 6	811	33.0	72149	10 ADE81173	Ade81173 ML-236B s
c 7	292.5	11.9	562	4 AAF74579	Aaf74579 ML-236B b
c 8	292.5	11.9	562	6 AAS16802	Aas16802 Penicilli
c 9	266.5	10.9	541	4 AAF74567	Aaf74567 ML-236B b
10	266.5	10.9	541	6 AAS16790	Aas16790 Penicilli
11	163	6.6	2757	6 ABN79876	Abn79876 Fungal ZB
12	163	6.6	2760	13 ADS46692	Ads46692 Bacterial
13	157.5	6.4	1272	6 ABQ94268	Abq94268 loVF gene
14	157.5	6.4	1272	6 ABQ94268	Abn79908 Fungal ZB
15	153.5	6.2	1440	6 ABN79801	Abn79801 Fungal ZB
16	140.5	5.7	1812	6 ABN79780	Abn79780 Fungal ZB
17	139	5.7	3980	2 AAV03014	Aav03014 Aspergill
18	135	5.5	1299	6 ABN79772	Abn79772 Fungal ZB
19	132.5	5.4	2100	2 AAV31356	Aav31356 Trichoder
20	132	5.4	1311	6 ABN79771	Abn79771 Fungal ZB
21	132	5.4	3510	6 ABN79856	Abn79856 Fungal ZB
22	132	5.4	3513	13 ADT47508	Adt47508 Bacterial
23	130.5	5.3	1986	6 ABN79779	Abn79779 Fungal ZB
24	130.5	5.3	2384	6 ABS69979	Abs69979 Aspergill
25	129.5	5.3	1737	6 ABN79778	Abn79778 Fungal ZB
26	129	5.3	1152	6 ABN79773	Abn79773 Fungal ZB
27	129	5.3	1332	6 ABN79774	Abn79774 Fungal ZB
28	128.5	5.2	1373	2 AAV31355	Aav31355 Trichoder
c 29	127.5	5.2	2170	6 ABQ54970	Abq54970 Human ova
c 30	127.5	5.2	5378	13 ADR67197	Adr67197 Human bla
c 31	127.5	5.2	5382	10 ADD14722	Add14722 Human src
32	126.5	5.2	3176	10 ADF81709	Adf81709 Leukaemia
33	126.5	5.2	3199	13 ABD32931	Abd32931 Human can
34	126.5	5.2	3312	13 ABD32932	Abd32932 Human can
35	126.5	5.2	3996	12 ADQ63000	Adq63000 Novel hum
36	126.5	5.2	5154	13 ADR10410	Adr10410 Full leng
37	126.5	5.2	7819	10 ADE71185	Ade71185 Novel hum
38	126	5.1	2466	6 ABS69975	Abs69975 Aspergill
39	125.5	5.1	2217	6 ABN79864	Abn79864 Fungal ZB
40	124.5	5.1	2208	6 ABN79803	Abn79803 Fungal ZB
41	124	5.0	2952	6 ABN79816	Abn79816 Fungal ZB
42	123.5	5.0	1821	6 ABN79894	Abn79894 Fungal ZB
43	123	5.0	1596	10 ADE81192	Ade81192 Orf1 codi
44	123	5.0	1695	6 ABN79851	Abn79851 Fungal ZB
45	122.5	5.0	2646	6 ABN79818	Abn79818 Fungal ZB

ALIGNMENTS

RESULT 1
ID ADE81190 standard; DNA; 1377 BP.
XX
AC ADE81190;
XX
DT 29-JAN-2004 (first entry)
XX
DE MLCr coding sequence, SEQ ID 18.
XX
KW ML-236B; HMG-CoA reducing enzyme; ds; MLCr.
XX
OS Penicillium citrinum.
XX
FH Key Location/Qualifiers
FT CDS 1..1377
FT /tag= a
FT /product= "MLCr"
XX
PN JP2003116567-A.
XX
PD 22-APR-2003.
XX
PF 15-OCT-2001; 2001JP-00316578.
PR 15-OCT-2001; 2001JP-00316578.
XX
PA (SANY) SANKYO CO LTD.
XX

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 16, 2005, 21:08:47 ; Search time 234 Seconds
(without alignment)
3279.546 Million cell updates/sec

Title: US-09-974-760B-91

Perfect score: 2456

Sequence: 1 MAADQGIPTSVTLSPVSGS.....FSLARKKHGMLRLNNIPP 469

Scoring table:

BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop. 6.0 , Delext 7.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405566

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 95%

Listing first 45 summaries

Command line parameters:

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-DB=Issued Patents NA -Qfmt=fastap -SUFFIX=95pct.rn1 -MINMATCH=0.1 -LOOPCL=0
-LOOPEXT=0 -UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi
-LIST=45 -DOCLIGN=200 -THR SCORE=pct -THR MAX=95 -THR MIN=0 -ALIGN=15
-MODE=LOCAL -OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=2000000000
-USER=US09974760 @CIGN 1 1 105 @runat_14022005_160343_6778 -NCPU=6 -ICPU=3
-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

Databases : Issued Patents NA.*

- 1: /cgn2_6/ptodata/1/ina/5A COMB.seq.*
- 2: /cgn2_6/ptodata/1/ina/5B COMB.seq.*
- 3: /cgn2_6/ptodata/1/ina/6A COMB.seq.*
- 4: /cgn2_6/ptodata/1/ina/6B COMB.seq.*
- 5: /cgn2_6/ptodata/1/ina/PCTUS COMB.seq.*
- 6: /cgn2_6/ptodata/1/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	157.5	6.4	1272	US-10-029-180-103	Sequence 103, App
2	139	5.7	3980	US-09-197-814-1	Sequence 1, Appli
3	139	5.7	3980	US-09-197-814-2	Sequence 2, Appli
4	139	5.7	3980	US-09-920-581-1	Sequence 1, Appli
5	139	5.7	3980	US-09-920-581-2	Sequence 2, Appli
6	129.5	5.3	49225	US-09-902-540-1269	Sequence 1269, Ap
7	127	5.2	2844	US-09-669-980A-5	Sequence 5, Appli
8	126.5	5.2	3061	US-09-147-119-6	Sequence 6, Appli
9	126.5	5.2	3145	US-09-949-016-2624	Sequence 2624, Ap
10	121.5	4.9	2970	US-09-248-796A-5006	Sequence 5006, Ap
11	121	4.9	110585	US-09-949-016-13427	Sequence 13427, A
12	119.5	4.9	4403765	US-09-103-840A-2	Sequence 2, Appli

13	119.5	4.9	4411529	3	US-09-103-840A-1	Sequence 1, Appli
14	119	4.8	3047	4	US-09-016-434-1465	Sequence 1465, Ap
15	118	4.8	927	4	US-10-029-180-97	Sequence 97, Appl
16	118	4.8	1317	4	US-09-248-796A-4861	Sequence 4861, Ap
17	118	4.8	4403765	3	US-09-103-840A-2	Sequence 2, Appli
18	118	4.8	4411529	3	US-09-103-840A-1	Sequence 1, Appli
19	114.5	4.7	2961	4	US-09-248-796A-4985	Sequence 4985, Ap
20	113.5	4.6	3226	3	US-08-870-126-10	Sequence 10, Appl
21	113.5	4.6	3226	3	US-09-445-247-10	Sequence 10, Appl
22	112.5	4.6	2855	4	US-09-248-796A-6094	Sequence 6094, Ap
23	112.5	4.6	4935	4	US-09-949-016-1019	Sequence 1019, Ap
24	112.5	4.6	4935	4	US-09-949-016-5054	Sequence 5054, Ap
25	112.5	4.6	41062	4	US-09-949-016-12761	Sequence 12761, A
26	112.5	4.6	41062	4	US-09-949-016-16796	Sequence 16796, A
27	112	4.6	109690	4	US-09-949-016-13525	Sequence 13525, A
28	111.5	4.5	44377	2	US-08-804-227C-7	Sequence 7, Appli
29	111.5	4.5	44377	2	US-08-804-198-1	Sequence 1, Appli
30	110.5	4.5	792	4	US-09-252-991A-15292	Sequence 15292, A
31	110	4.5	2239	4	US-09-774-528-49	Sequence 49, Appl
32	109.5	4.5	2871	4	US-09-252-991A-11431	Sequence 11431, A
33	109.5	4.5	9880	4	US-09-902-540-936	Sequence 936, App
34	109	4.4	1548	4	US-09-252-991A-5880	Sequence 5880, Ap
35	109	4.4	1605	4	US-09-248-796A-5465	Sequence 5465, Ap
36	109	4.4	1735	3	US-09-163-444-3	Sequence 3, Appli
37	108.5	4.4	942	4	US-09-248-796A-4573	Sequence 4573, Ap
38	108.5	4.4	2052	4	US-09-252-991A-12103	Sequence 12103, A
39	108.5	4.4	5895	4	US-09-902-540-7920	Sequence 792, App
40	108.5	4.4	33578	4	US-09-949-016-15670	Sequence 15670, A
41	108	4.4	2508	4	US-09-252-991A-15550	Sequence 15550, A
42	107.5	4.4	2847	4	US-09-902-540-7588	Sequence 7588, Ap
43	107.5	4.4	4978	4	US-09-902-540-775	Sequence 775, App
44	107.5	4.4	7704	4	US-09-902-540-743	Sequence 743, App
45	107.5	4.4	10322	4	US-09-902-540-989	Sequence 989, App

ALIGNMENTS

RESULT 1

US-10-029-180-103

; Sequence 103, Application US/10029180

; Patent No. 6806082

; GENERAL INFORMATION:

; APPLICANT: Holtzman, Doug

; APPLICANT: Madsen, Kevin T.

; APPLICANT: Milna, G. Todd

; APPLICANT: Sherman, Amir

; APPLICANT: Silva, Jeffrey C.

; APPLICANT: Trueheart, Josh

; APPLICANT: Zhang, Lixin

; TITLE OF INVENTION: No. 6806082el Regulators of Fungal Gene Expression

; FILE REFERENCE: MIC-004

; CURRENT APPLICATION NUMBER: US/10/029,180

; CURRENT FILING DATE: 2001-12-22

; PRIOR APPLICATION NUMBER: US 60/257,431

; PRIOR FILING DATE: 2000-12-22

; NUMBER OF SEQ ID NOS: 138

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 103

; LENGTH: 1272

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: fungal gene

US-10-029-180-103

Alignment Scores:

Pred. No.:	2,53e+06	Length:	1272
Score:	157.50	Matches:	95
Percent Similarity:	36.65%	Conservative:	67
Best Local Similarity:	21.43%	Mismatches:	170
Query Match:	6.41%	Indels:	111
DB:	4	Gaps:	19

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OM protein - nucleic search, using frame_plus_p2n model
Run on: February 16, 2005, 22:54:23 ; Search time 673 Seconds
(without alignments)
4111.910 Million cell updates/sec

Title: US-09-974-760B-91
Perfect score: 2456
Sequence: 1 MAADQGIPTSVTLSPVEGS.....FSLARKKHGMLRLNNIPP 469

Scoring table: BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 5378673 seqs, 2950229984 residues

Total number of hits satisfying chosen parameters: 10757281

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 95%
Listing first 45 summaries

Command line parameters:
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-DB=Published Applications NA -QWTF=fastap -SUFFIX=95pct.rnpb -MINMATCH=0.1
-LOOPEL=0 -LOOPEXT=0 -UNITS=bits -START=1 -END=-1 -MATRIX=blom62
-TRANS=human40.cdi -LIST=45 -DOCLIGN=200 -THR SCORE=pct -THR MAX=95
-THR MIN=0 -ALIGN=15 -MODE=LOCAL -OUTFMT=pct -HEAPSIZE=500 -MINLEN=0
-MAXLEN=2000000000 -USER=US09974760 @CIGN 1 1 723 @runat 14022005_160344_6868
-NCPU=6 -ICPU=3 -NO_WMAP -LARGQUERY -NEG_SCORES=0 -WAIT -DSPELCK=100
-LONGLOG -DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5
-XGAPOP=6 -XGAPEXT=7 -XGAPOP=10 -XGAPEXT=0.5 -DELOP=6 -DELEXT=7

Database : Published Applications NA:
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2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:
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4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:
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13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:
15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:
16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:
17: /cgn2_6/ptodata/2/pubpna/US10E_PUBCOMB.seq:
18: /cgn2_6/ptodata/2/pubpna/US10F_PUBCOMB.seq:
19: /cgn2_6/ptodata/2/pubpna/US10_NEW_PUB.seq:
20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:
21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	830	33.8	1380	10	US-09-836-705-41
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c	811	33.0	34203	10	US-09-836-705-2
4	811	33.0	34203	10	US-09-836-705-2
c	292.5	11.9	562	10	US-09-836-705-34
5	292.5	11.9	562	10	US-09-836-705-34
6	266.5	10.9	541	10	US-09-836-705-22
7	163	6.6	2757	17	US-10-149-310-337
8	163	6.6	2760	17	US-10-149-310-337
9	157.5	6.4	1272	13	US-10-369-433-152122
10	157.5	6.4	1272	13	US-10-029-180-103
11	153.5	6.2	1440	17	US-10-149-310-301
12	140.5	5.7	1812	17	US-10-149-310-87
13	139	5.7	3980	9	US-09-920-581-1
14	139	5.7	3980	9	US-09-920-581-2
15	139	5.7	3980	15	US-10-371-421-1
16	139	5.7	3980	15	US-10-371-421-2
c	138.5	5.6	9025608	15	US-10-156-761-1
17	138.5	5.6	9025608	15	US-10-156-761-1
18	136	5.5	1557	18	US-10-437-963-92795
19	135	5.5	1299	17	US-10-149-310-39
20	135	5.5	1302	9	US-09-801-368-37
21	133.5	5.4	1551	15	US-10-156-761-1622
22	132	5.4	1311	17	US-10-149-310-27
23	132	5.4	3510	17	US-10-149-310-197
24	132	5.4	3513	17	US-10-369-493-45946
25	130.5	5.3	1866	17	US-10-149-310-43
26	130.5	5.3	1889	9	US-09-801-368-41
27	129.5	5.3	2384	18	US-10-468-250A-78
28	129.5	5.3	1737	17	US-10-149-310-31
29	129	5.3	1152	17	US-10-149-310-31
30	129	5.3	1332	17	US-10-149-310-33
c	127.5	5.2	2170	17	US-10-264-049-850
32	127	5.2	2844	19	US-10-943-742-5
c	126.5	5.2	894	18	US-10-437-963-21580
34	126	5.1	2466	15	US-10-468-250A-74
35	126	5.1	9025608	15	US-10-156-761-1
36	125.5	5.1	2217	17	US-10-149-310-213
37	125.5	5.1	2220	9	US-09-801-368-395
38	124.5	5.1	2208	17	US-10-149-310-91
39	124	5.0	2952	17	US-10-149-310-117
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41	123	5.0	1695	17	US-10-149-310-187
42	122.5	5.0	2646	17	US-10-149-310-121
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ALIGNMENTS

RESULT 1
US-10-402-056-114
; Sequence 114, Application US/10402056
; Publication No. US20040191877A1
; GENERAL INFORMATION:
; APPLICANT: Roberts, Shannon
; APPLICANT: Sherman, Amir
; APPLICANT: Trueheart, Joshua
; APPLICANT: Milne, G. Todd
; TITLE OF INVENTION: LOVE VARIANT REGULATOR MOLECULES
; FILE REFERENCE: 14184-029001
; CURRENT APPLICATION NUMBER: US/10402,056
; CURRENT FILING DATE: 2003-03-28
; PRIOR APPLICATION NUMBER: PCT/US02/32248
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US 09/974,760
; PRIOR FILING DATE: 2001-10-09
; PRIOR APPLICATION NUMBER: US 60/328,339
; PRIOR FILING DATE: 2001-10-09
; NUMBER OF SEQ ID NOS: 118

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OM protein - nucleic search, using frame_plus_p2n model

Run on: February 16, 2005, 21:02:37 ; Search time 3602 Seconds
(without alignments)
4956.175 Million cell updates/sec

Title: US-09-974-760B-91
Perfect score: 2456
Sequence: 1 MAADQIGFTSVTLSPVEGS.....FSLARKKHGMLRLDNNIPP 469

Scoring table: BLOSUM62
Xgapop 10.0 , Xgapext 0.5
Ygapop 10.0 , Ygapext 0.5
Fgapop 6.0 , Fgapext 7.0
Delop 6.0 , Delext 7.0

Searched: 34239544 seqs, 19032134700 residues
Total number of hits satisfying chosen parameters: 68479088
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 95%
Listing first 45 summaries

Command line parameters:
-MODEL=frame+p2n.model -DEV=xlp
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-DB=EST -QPMT=fastap -SUFFIX=95pct.rst -MINMATCH=0.1 -LOOPEL=0 -LOOPEXT=0
-UNITS=bits -START=1 -END=1 -MATRIX=blosum62 -TRANS=human40.cdi -LIST=45
-DOCALIGN=200 -THR SCORE=pct -THR MAX=95 -THR MIN=0 -ALIGN=15 -MODE=LOCAL
-OUTFMT=ptc -NORM=ext -HEAPSIZ=500 -MINLEN=0 -MAXLEN=200000000
-USER=US09974760@cgn_1_1_5180@runat_14022005_160343_6765 -NCPU=6 -ICPU=3
-NO_MAP -LARGESQ=0 -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOG
-DEV TIMEOUT=120 -WARN TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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5: gb_est4.*
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8: gb_gss1.*
9: gb_gss2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	145.5	5.9	791	7	CF682666
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4	131	5.3	773	7	CF706713
5	130.5	5.3	570	8	AQ397018
6	129.5	5.3	1503	5	BM918679
7	129	5.3	2472	9	CU961584
8	127.5	5.2	731	7	CF868238
9	127.5	5.2	786	6	CB898308

10	127.5	5.2	857	7	C0021754
11	127.5	5.2	2066	9	AY399870
12	127.5	5.2	2274	3	CR590353
13	126.5	5.2	740	7	CF886493
14	126.5	5.2	812	6	CB902489
15	126.5	5.2	1904	3	BC050362
16	126.5	5.2	5176	3	CR749286
17	126	5.1	584	7	CO134902
18	125	5.1	623	7	CO022915
19	125	5.1	1094	6	CD458335
20	123.5	5.0	1066	6	CD501980
21	123	5.0	2786	3	AK082888
22	122	5.0	925	7	CO021563
23	120.5	4.9	750	7	CF877407
24	120.5	4.9	765	7	CF688031
25	120.5	4.9	812	6	CB905758
26	120.5	4.9	1272	5	BQ648956
27	120	4.9	706	5	BQ063507
28	119.5	4.9	1530	4	BM543030
29	119	4.8	683	7	CF693020
30	119	4.8	695	7	CF870415
31	119	4.8	766	6	CB900596
32	118.5	4.8	858	7	CN809042
33	118	4.8	759	7	CF869789
34	118	4.8	815	6	CB899935
35	118	4.8	974	9	CNS03ADZ
36	117.5	4.8	1632	9	CL945327
37	117.5	4.8	3282	9	CL957631
38	117	4.8	558	5	BQ138028
39	117	4.8	735	7	CF714957
40	117	4.8	818	7	CO141871
41	117	4.8	866	7	CF711138
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45	116.5	4.7	873	7	CF694730

ALIGNMENTS

RESULT 1
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LOCUS CCACQ277R C.neoformans strain JEC21 Cryptococcus neoformans var.
DEFINITION neoformans cDNA clone CCACQ27, mRNA sequence.
ACCESSION CF682666
VERSION CF682666.1 GI:41536825
KEYWORDS EST.
SOURCE Cryptococcus neoformans var. neoformans (Filobasidiella neoformans var. neoformans)
ORGANISM Cryptococcus neoformans var. neoformans
Eukaryota; Fungi; Basidiomycota; Hymenomycetes;
Heterobasidiomycetes; Tremellomycetidae; Tremellales; Tremellaceae;
Filobasidiella.
REFERENCE 1 (bases 1 to 791)
AUTHORS Loftus, B.
TITLE End sequencing of clones from a Full length enriched, normalized
JEC21 cDNA library
JOURNAL Unpublished (2003)
COMMENT Other_ESTs: CCACQ27TF
Contact: Brendan Loftus
TIGR
Department of Eukaryotic Genomics, TIGR, 9712 Medical Center Drive,
Rockville, MD 20850, USA
Tel: 301-838-3543
Fax: 301-838-0208
Email: crypt@tigr.org
Seq primer: TR.
Location/Qualifiers
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/organism="Cryptococcus neoformans var. neoformans"
/mol_type="mRNA"
/strain="JEC21"